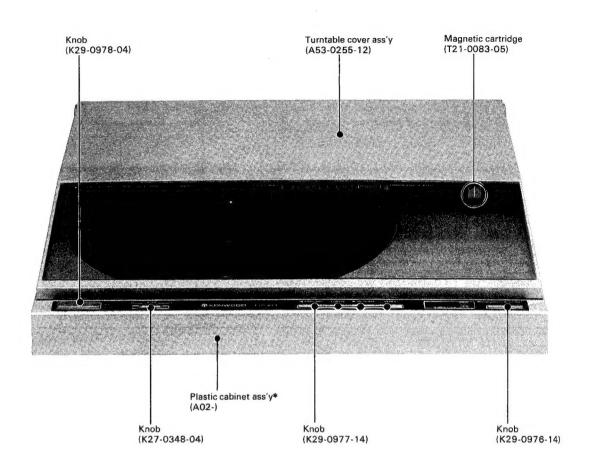
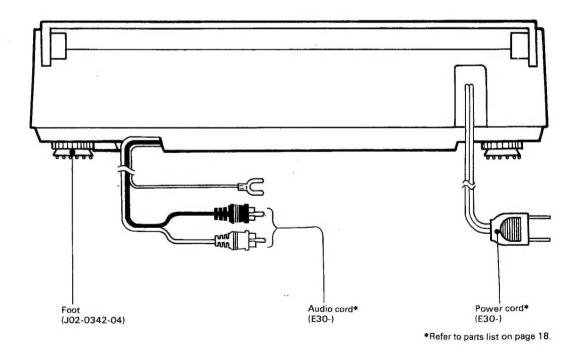
\$KENWOOD KD-9X/9XG

QUARTZ PLL DIRECT DRIVE FULL-AUTOMATIC TURNTABLE

YNUYU





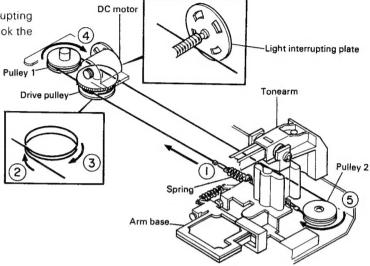
CORD STRINGING/DISASSEMBLY FOR REPAIR

Cord Stringing

1. Hook the loop of the cord to the spring and hook the spring to arm base. Stretch the cord to the direction of the arrow ①.

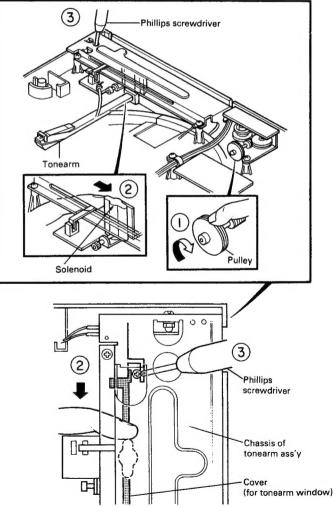
2. Wind the cord 2 turns around drive pulley (② , ③) and hook the cord around pulley 1 (④).

3. Stretch the cord under the axis of the light-interrupting plate and hook the cord around pulley 2 (⑤). Hook the loop to the arm base.



Removal of Tonearm ass'y

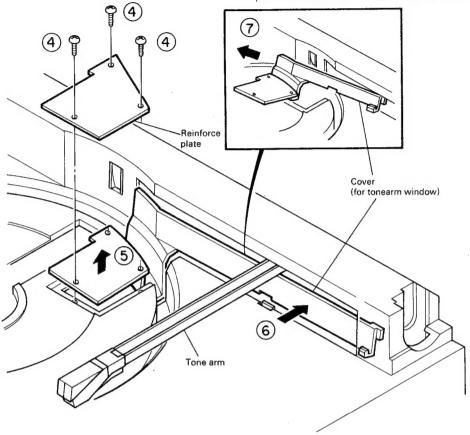
- Remove turntable sheet and turntable platter and turn the cabinet upside down.
- 2. Turn the pulley, connected by the belt with the DC motor, with a finger (①) and move the tonearm from the arm rest position.
- 3. Push the solenoid section of the tonearm ass'y and move the tonearm farther from the arm rest (②).
- 4. Stick in a Phillips screwdriver through the hole on the chassis of the tonearm ass'y and remove the screw which is pressing the cover against the cabinet (3).





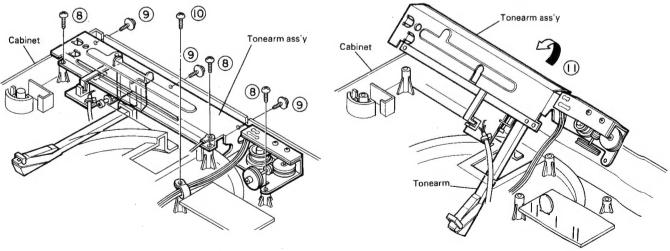
DISASSEMBLY FOR REPAIR

- 5. Remove 3 screws from the reinforce plate for the cover for tonearm window (4).
- 6. Slightly lift the left hand side of the cover, push the right hand side of the cover in the direction of the arrow **(6)** and pull the cover out in the direction of the arrow **(7)**.

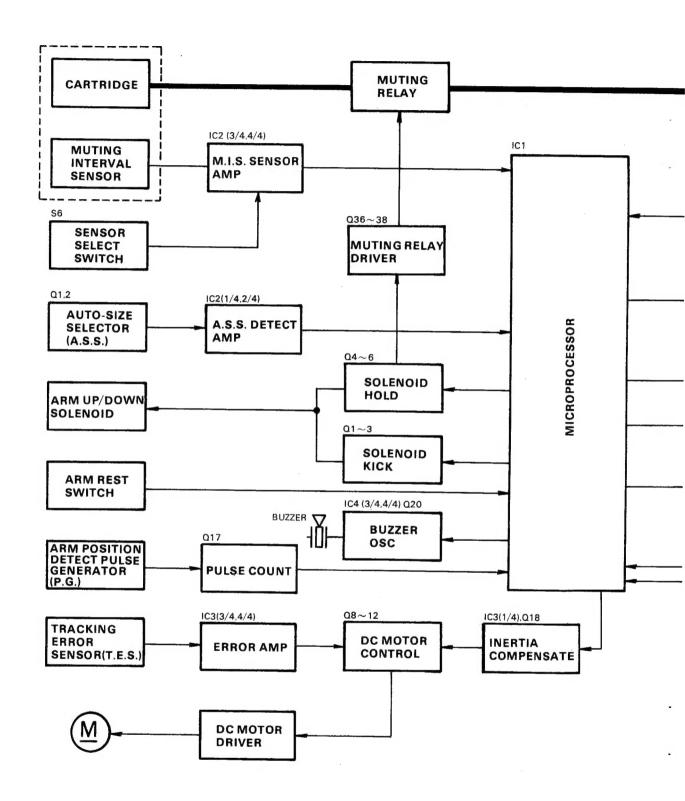


- 7. Remove 3 screws retaining the tonearm ass'y (**(®)**), 3 screws at the rear side of the cabinet (**(®)**) and a screw retaining the cord clamper (**(①)**).
- 8. Push the solenoid section of the tonearm ass'y and move the tonearm so that the tonearm can be seen through the hole shown in the figure below. Rotate the tonearm ass'y as shown by the arrow ① . When rotating, be careful the tonearm and the cartridge does not touch the cabinet.

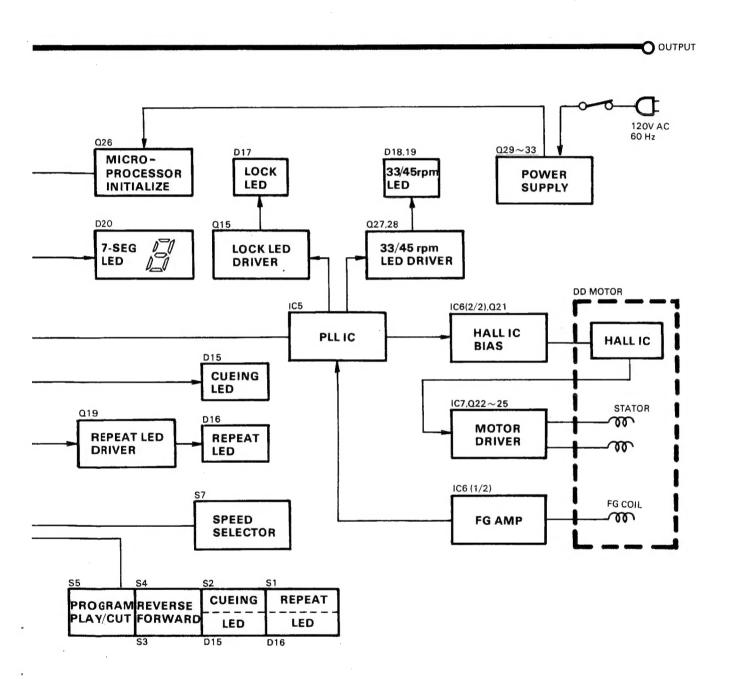
Note: When the tonearm ass'y is once removed or replaced, adjustment must be done.



BLOCK DIAGRAM



BLOCK DIAGRAM



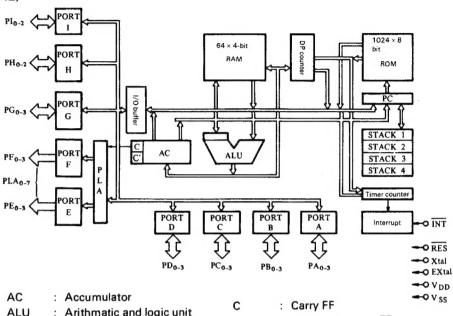
KD-9X/9XG

CIRCUIT DESCRIPTION

NEW PARTS DESCRIPTION

1. Mechanism Control IC (LM6405-042)

In the KD-9X the movement of the tonearm is controlled by a microprocessor. This microprocessor is an Nchannel E/D MOS 4-bit microprocessor LSI in a 42-pin dual-in-line package. The block diagram of the microprocessor is shown in fig. 1.



ALU : Arithmatic and logic unit

DP

: Data pointer

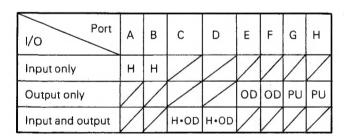
C' Temporary carry FF PC

PLA : Programmable logic array Program counter

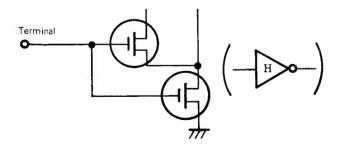
Fig. 1 Block diagram of microprocessor (LM-6405-042)

Description of Pins

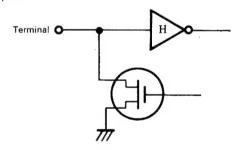
The input/output terminals are determined by the usage of the microprocessor, and each input/output circuits will be selected for them. In this microprocessor, the following input or output circuits are selected.



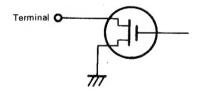
High threshold input gate (H) input only



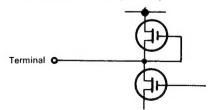
High threshold input/open drain output (H.OD) input and output



Open drain output (OD) output only



Pulled-up output (PU) output only



CIRCUIT DESCRIPTION

Terminal names and their uses are shown in the following table.

INPUT TERMINALS

Terminal names	Pin No.	Usage
AO	33	Auto-size-selector (A.S.S.) Q1 signal input
A1	34	Auto-size-selector (A.S.S.) Q2 signal input
A2	35	Music-interval-sensor signal input
A3	36	Pulse generator signal input
во	37	PROGRAM.PLAY/CUT switch input
B1	38	REPEAT switch input
82	39	CUEING switch input
В3	40	33-AUTO-45 switch input
co	2	FORWARD switch input
C1	3	REVERSE switch input
C2 '	4	Turntable lock signal input
С3	5	Tonearm rest position detect signal input

Note:

Turntable lock signal is "H" when the turntable is quartz locked and "L" for others.

OUTPUT TERMINALS

Terminal names	Pin No.	Usage
DO	8	Solenoid drive signal 1 output
D1	9	Solenoid drive signal 2 output
D2	10	Not used
D3	11	Not used
EO	12	7-segment display (a) output
E1	13	7-segment display (b) output
E2	14	7-segment display (c) output
E3	15	7-segment display (d) output
FO	16	7-segment display (e) output
F1	17	7-segment display (f) output
F2	18	7-segment display (g) output
F3	19	CUEING LED display output
GO	22	Piezoelectric buzzer signal output
G1	23	Not used
G2	24	REPEAT LED display output
G3	25	Not used
но	26	FORWARD drive signal output
H1	27	REVERSE drive signal output
H2	28	Turntable ON/OFF signal output
Н3	29	Turntable speed signal output

Note

FORWARD drive signal is a signal to drive the tonearm toward the spindle when FORWARD key is pressed. REVERSE drive signal is a signal to drive the tonearm away from the spindle when REVERSE key is pressed.

OTHER TERMINALS

Terminal names	Pin No.	Usage
Xtal	1	For connecting resonator for internal oscillation
INT	6	Interrupt request signal input
RES	7	Reset signal input
TEST	20	For testing LSI (normally connected to OV)
Vss	21	GND terminal for power supply
VDD	41	Power supply (+ 5V)
EXtai	42	External clock input (When using internal clock, connect the resonator between this pin and pin 1.)

Note:

Immediately after the power is turned on, "L" signal is applied to RES terminal. This initializes all output ports to "H". Then the program starts and appropriate signals are output at each ports.

2. Music-interval Detection Sensor

In the KD-9X, photo sensor (photo interrupter) is concealed in the cartridge. For this reason, when the sensor is found defective, cartridge must be changed.

When the stylus tip is 5 mm above the record disk surface, the point where the sensor detects is 0.5 mm closer to the spindle from the point right below the stylus tip.

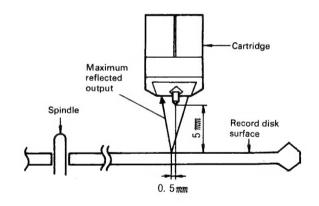


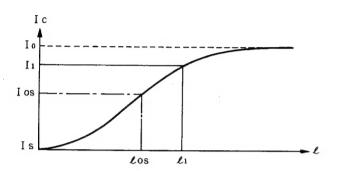
Fig. 2 Cartridge viewed from the front

KD-9X/9XG

CIRCUIT DESCRIPTION

3. Tracking Error Detection Sensor (ON1108)

Photo interrupter ON1108 is used for detecting the tracking error. A shutter connected to the tonearm is placed between the LED and the photo transistor. The tracking error is detected by the relation between the position of the shutter and the collector current of the photo transistor.



Position of the shutter

e lc: Collector current of the photo transistor

Collector current of the photo transistor when the

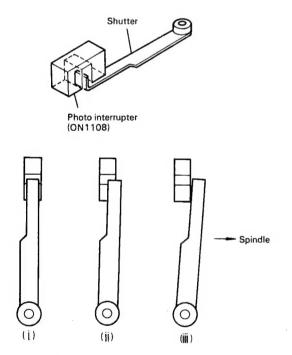
shutter is fully open

Collector current of the photo transistor when the Is:

shutter is fully closed

Collector current of the photo transistor when offset adjustment is made

Fig. 3 Relation between the position of the shutter and the collector current of the photo transistor



- When the shutter is fully closed (Ic=Is)
- When the shutter is set at offset position (Ic=los)
- When the shutter is fully opened (Ic=Io)

Fig. 4 Shutter viewed from the bottom

The shutter moves out from the slit of the photo interruptor. as the tonearm moves toward the spindle. That means the shutter moves to the direction so that the light from the LED reaches to the photo transistor increases. The increased collector current is detected to move the arm base so that the tracking error becomes zero.

4. Pulse Generator Sensor for detecting Tonearm Position (ON1128)

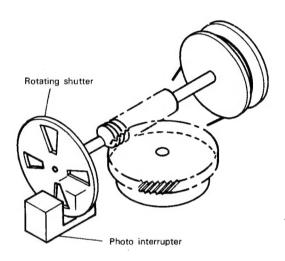


Photo interrupter ON1128 is used for detecting the position of the tonearm. A rotating shutter is placed between the LED-and the photo transistor. This rotating shutter is connected to the DC motor so that it rotates when the motor moves. At the same time, by the cord attached to the arm base ass'y, the tonearm moves.

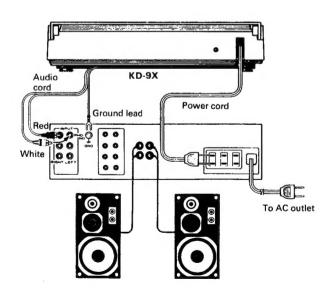
When the rotating shutter rotates, the photo transistor of the photo interrupter repeats ON/OFF. This ON/OFF action of the photo transistor is counted as a pulse to detect the AUTO-IN and RETURN position.

Set-up pulse count from the arm rest position is shown in the following.

AUTO-IN position	for 30 cm disk	405 pulses
	for 17 cm disk	736 pulses
RETURN position	for 30 cm disk	891 pulses
	for 17 cm disk	916 pulses

ADJUSTMENT

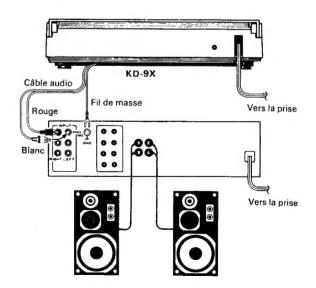
No.	ITEM	INPUT SETTING	OUTPUT SETTING	TURNTABLE SETTING	ALIGNMENT POINTS	ALIGN FOR	FIG.
1	OFFSET (1)	_	Disconnect PH1 and connect a DC voltmeter to pin 8 of IC3 (PHA3- ③)	Remove the tonearm from its rest and lower it.	VR3	-0.80V	(a)
2	OFFSET (2)	_	Connect a DC voltmeter to pin 10 of IC2 (PHA3- ①)	Raise and lower the tonearm several times, then leave it in the UP position.	Adjustment screw under the tonearm	— 650 mV	(b)
3	DISTANCE BETWEEN THE STYLUS AND DISK SURFACE	Record	Connect PHA1	SIZE: 17 cm Tonearm: UP Auto-IN	Adjustment screw on the rear side of the tonearm	5 mm	(c)
4	SENSITIVITY OF THE SELECTION SENSOR (1)	Test record (T99-0216-05)	Connect a DC Voltmeter to pin 10 of iC2 (PH3- ①)	Lift the tonearm and move it to the center of the audio band using the FORWARD and REVERSE buttons.	VR1 VR2	Turn VR2 all the way to the right. Adjust VR1 so that the voltmeter reads 100 mV.	(d)
5	SENSITIVITY OF THE SELECTION SENSOR (2)	Test record (T99-0216-05)	Connecto a DC voltmeter to pin 10 of IC2 (PHA3- ①)	Lift the tonearm and move it to the center of the unrecorded band using the FORWARD and REVERSE buttons.	VR2	150 mV	(e)
6	ACCURACY OF THE SELECTION SENSOR	Test record (T99-0216-05)	(A)	Specify a selection number with the PLAY/CUT key.	VR4	Turn VR4 all the way to the left, then turn it gradually to the right so that the tonearm is lowered onto the lead groove preceding the selection.	
7	AUTOMATIC LEAD-IN	Test record (W05-0036-00)	(A)	Specify selection number 1 with the PLAY/CUT key.	Adjustment screw of tone- arm ass'y.	24~28	(f)
8	SELECTION SENSOR	Test record (T99-0216-05)	Connect an oscilloscope to pin 4 of IC4.	Specify a selection number with the PLAY/CUT key.	VR5	400∼500 ms	(g)



D-9X/9XG

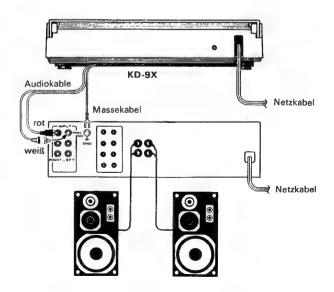
REGLAGES

N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DE TOURNE-DISQUE	POINTS L'ALIGNMENT	ALIGNER POUR	FIG.
1	DECLALAGE (1)	_	Débrancher PHA 1 et connecter un voltmètre CC à fiche 8 de IC3 (PHA3-③)	Enlever le bras de lecture de son support et le baisser.	VR3	-0.80V	(a)
2	DECALAGE (2)	_	Connecteur un voltmètre CC à la fiche 14 de IC2 (PHA3- ①)	Lever et baisser le bras de lecture plusieurs fois, ensuite, le laisser dans la position relevé.	Vis de réglage sous le bras de lecture	— 650 mV	(b)
3	DISTANCE ENTRE LA POINTE DE LECTURE ET LA SURFACE DU DISQUE.	Disque	Connecter PHA1	SIZE: 17 cm Bras de lecture: UP Marche	Vis de réglage à l'arrière du bras de lecture	5 mm	(c)
4	SENSIBILITE DU DETECTEUR DE SELECTION (1)	Disque d' essai (T99-0216-05)	Connecter un voltmètre CC à la fiche 10 de IC2 (PHA3- ①)	Lever le bras de lecture et le déplacer vers le centre de la bande audio en utilisant les boutons FORWARD et REVERSE	VR1 VR2	Tourner VR2 à fond vers la droite. Régler VR1 de manière à ce que le voltmètre indique 100 mV.	(d)
5	SENSIBILITE DU DETECTEUR DE SELECTION (1)	Disque d'essai (T99-0216-05)	Connecter un voltmètre CC à la fiche 10 de IC2 (PHA3 ①).	Lever le bras de lecture et le déplacer vers le centre de la Bande non-enregistrée en utilisant les boutons FORWARD et REVERSE	VR2	150 mV	(e)
6	PRECISION DU DETECTEUR DE SELECTION	Disque d'essai (T99-0216-05)	(A)	Spécifier un numéro de sélection avec la touche PLAY/CUT.	VR4	Tourner VR4 à fond vers la gauche, ensuite le tourner doucement vers la droite de manière à ce que le bras de lecture descende sur le sillon d'anttaque précédant la sélection.	
7	MARCHE	Disque d'essai (W05-0036-00)	(A)	Spécifier numéro de sélection 1 avec la touche PLAY/CUT	Vis de réglage d'assemblage du bras de lecture.	24~28	(f)
8	DETECTEUR DE SELECTION	Disque d'essai (T99-0216-05)	Connecter l'oscillo- scope à la fiche 10 de IC2 (PHA3- ①)	Spécifier un numéro de sélection avec la touche PLAY/CUT.	VR5	400~500 ms	(g)

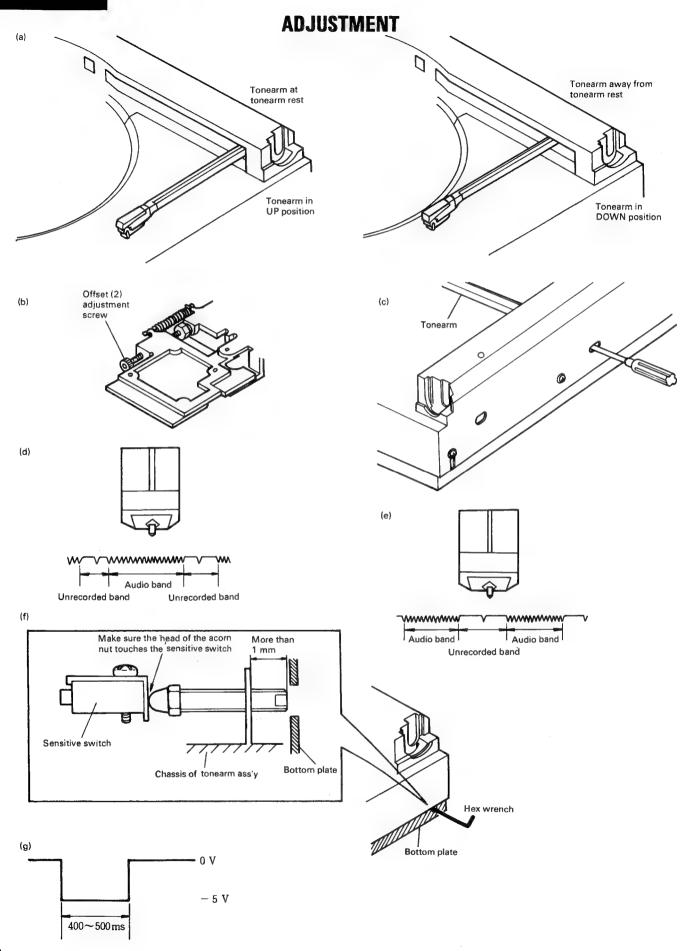


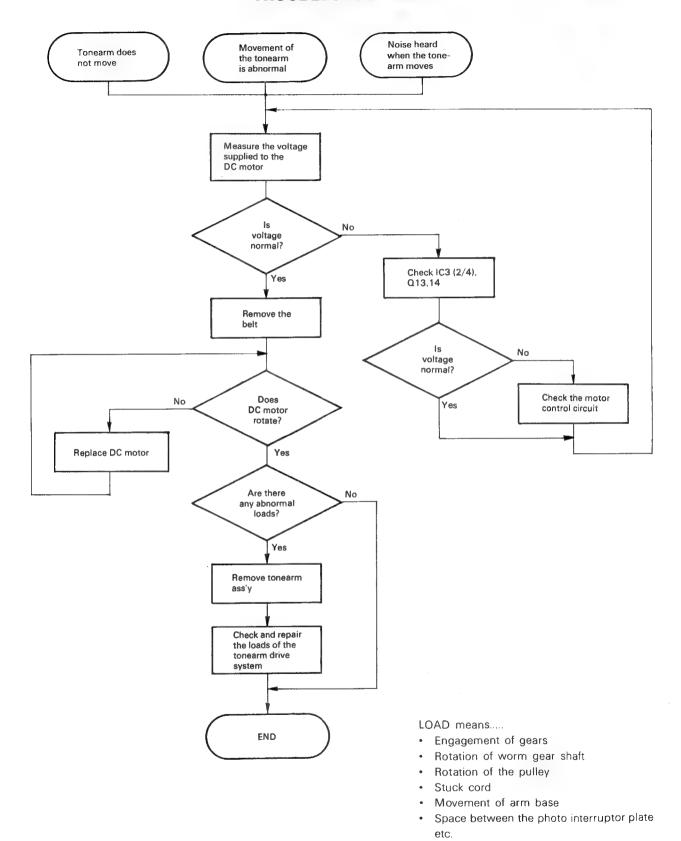
ABGLEICH

NR.	GEGENSTAND	EINGANGS- EINSTELLUNG	AUSGANGS- EINSTELLUNG	PLATTEN SPIELER EINSTELLUNG	ABGLEICH- PUNKTE	ABGLEICHEN FÜR	ABB.
1	VERSCHIEBUNG (1)		Trenne PHA 1 und einen gleichspann- ungs messer 3um Stift 8 von IC3 (PHA3- ③) auschließenx	Nehme den Tonarm aus seiner Halterung und senke ihn.	VR3	-0.80V	(a)
2	VERSCHIEBUNG (2)	_	Einen Gleichspann- ngsmesser zum Stift 10 von IC2 (PHA3 ①). anschließen.	Hebe und senke den Tonarm einigemale, lasse ihn dann auf oben Stellung.	Einstell- schraube ist unter dem Tonarm.	- 650mV	(b)
3	ABSTAND ZWISCHEN NADEL UND PLATTEN OBERFLÄCHE.	Platte	PHA1 anschließen	SIZE: 17 cm Tonarm. UP autom. Aufsetzen	Einstell- schraube ist and der hinter- seite des Tonarms.	5 mm	(c)
4	EMPFINDLICHKEIT DES AUSWAHL- FÜHLERS (1)	Probe eine Platte (T99-0216-05)	Einen Gleichspann- ungsmesser zum Stift 10 von IC2 (PHA3 ①) anschießen.	Hebe den Tonarm und führe ihn zum Mittel- punkt des Audiobandes durch den gebrauch der FORWARD und REVERSE Taste.	VR1 VR2	Drehe VR2 ganz nach rechts. Reguliere VR1 so das der Spannungsmesser 100 mV	(d)
5	EMPFINDLICHKEIT DES AUSWAHL FÜHLERS (2)	Probe eine Platte (T99-0216-05)	Einen Gleichspan- nungsmesser zum Stift 10 von IC2 (PHA3- ①) anschließen.	Hebe den Tonarm und führe ihn zum Mittel- punkt des Audiobandes durch den gebrauch der FORWARD und REVERSE Taste.	VR2	150 mV	(e)
6	GENAUJGKEIT DES AUSWAHLFÜHLERS	Probe eine Platte (T99-0216-05)	(A)	Gebe eine Auswahl- nummer mit dem PLAY/ CUT Schalter an.	VR4	Drehe VR4 ganz nach links, drehe es dann alfmählich nach rechts, so das der Tonarm auf die vorher ausgewälte Fürungsspur sinkt.	
7	AUTOM AUFSETZEN	Probe eine Platte (W05-0036-00)	(A)	Gebe Auswahl- nummer 1 mit dem PLAY/CUT Schalter an	Einstell- schraube ist an des Tonarm- zúsammenbaues.	24~28	(f)
8	AUSWAHLFÜHLER	Probe eine Platte (T99-0216-05)	Einen Oszilloskop zum Stift 10 von IC2 (PHA3- ①) anschließen.	Gebe eine Auswahl nummer mit dem PLAY/ CUT Schalter an.	VR5	400∼500 ms	(g)

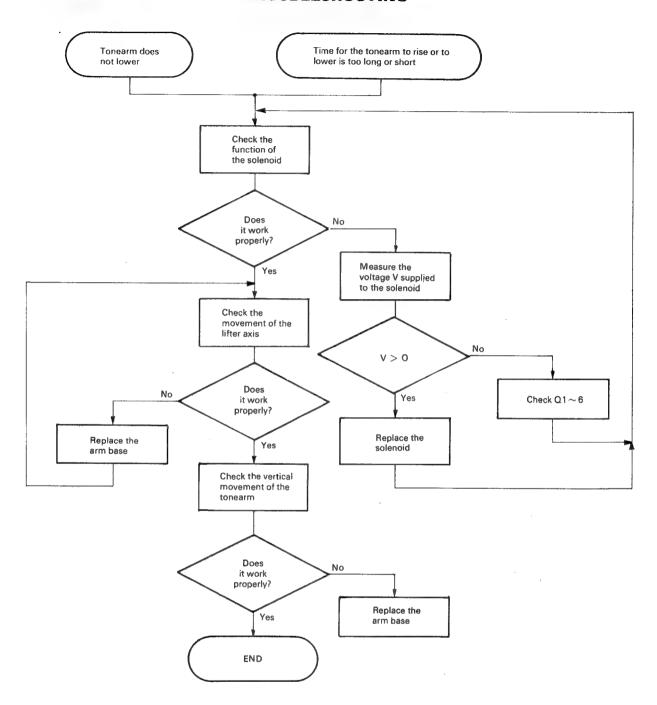


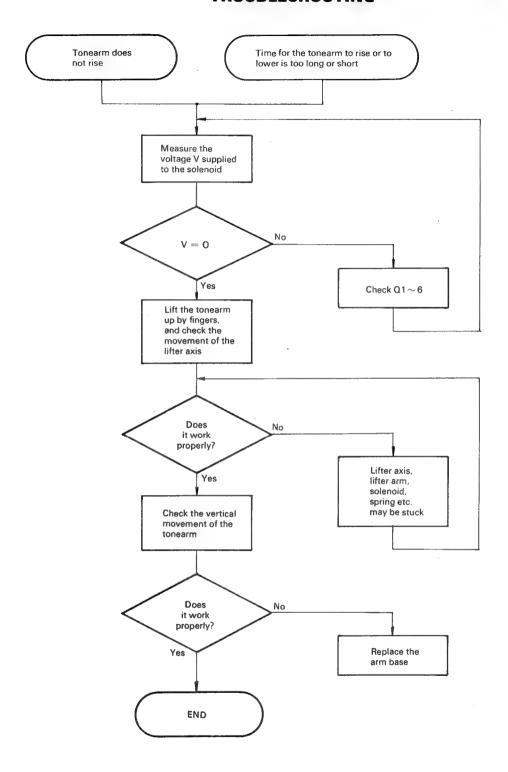
(D-9X/9XG)



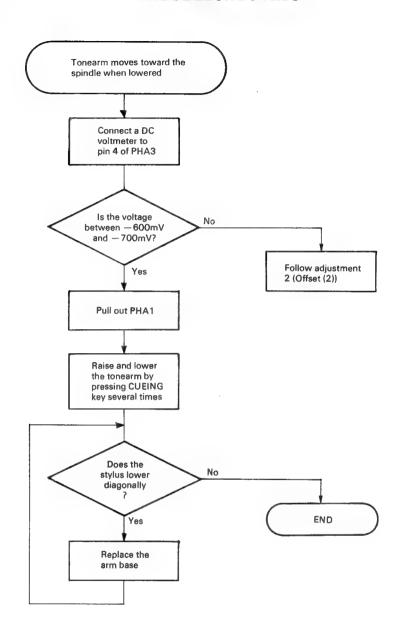


D-9X/9XG

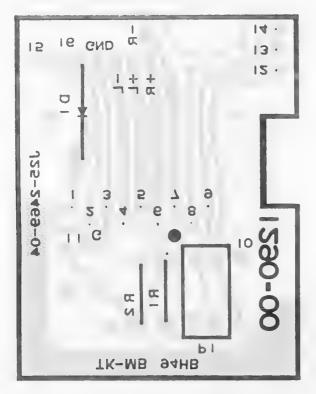


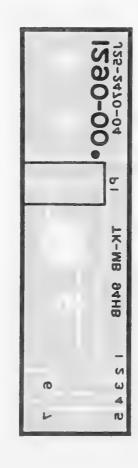


KD-9X/9XG

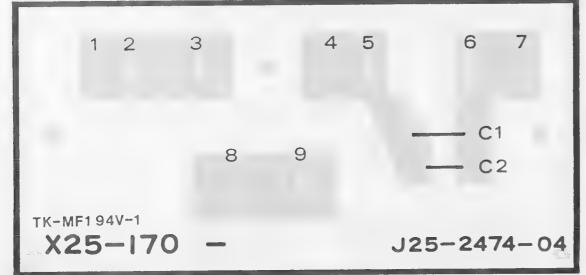


PC BOARD OF TONEARM ASS'Y Foil Side View





CONNECTING (X25 1700-11, Component Side View



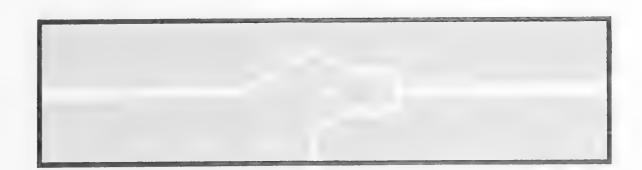
In this model, there are separated poboards which were originally one. These separated pc boards can't be supplied independently.

ć.	Part No. of pc board	Separated portion No.
	X09-1230-00	(A/3)
-	X09-1230-00	(B/3)
	X09-1230-00	(C/3)

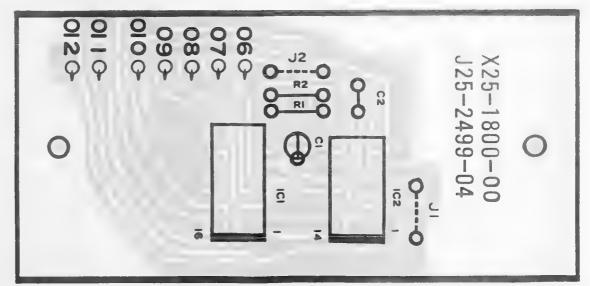
In the example shown above, separated portion can't be ordered independently. In case only A/3 was ordered, pc board ass'y of X09-1230-00, which all A/3, B/3, C/3 included, will be shipped.

Refer to the schematic diagram for the values of capacitors and resistors. The PC board drawing is viewed from the side easy to check.

SUB (X25-1710-00) Component Side View



SUB (X25 1800-00) Component Side View



In this model, there are separated pc boards which were originally one.

These separated pc boards can't be supplied independently.

Ex.	Part No. of pc board	Separated portion No.
	X09-1230-00	(A/3)
	X09-1230-00	(B/3)
	X09-1230-00	(C/3)

In the example shown above, separated portion can't be ordered independently. In case only A/3 was ordered, pc board ass'y of X09-1230-00, which all A/3, B/3, C/3 included, will be shipped.

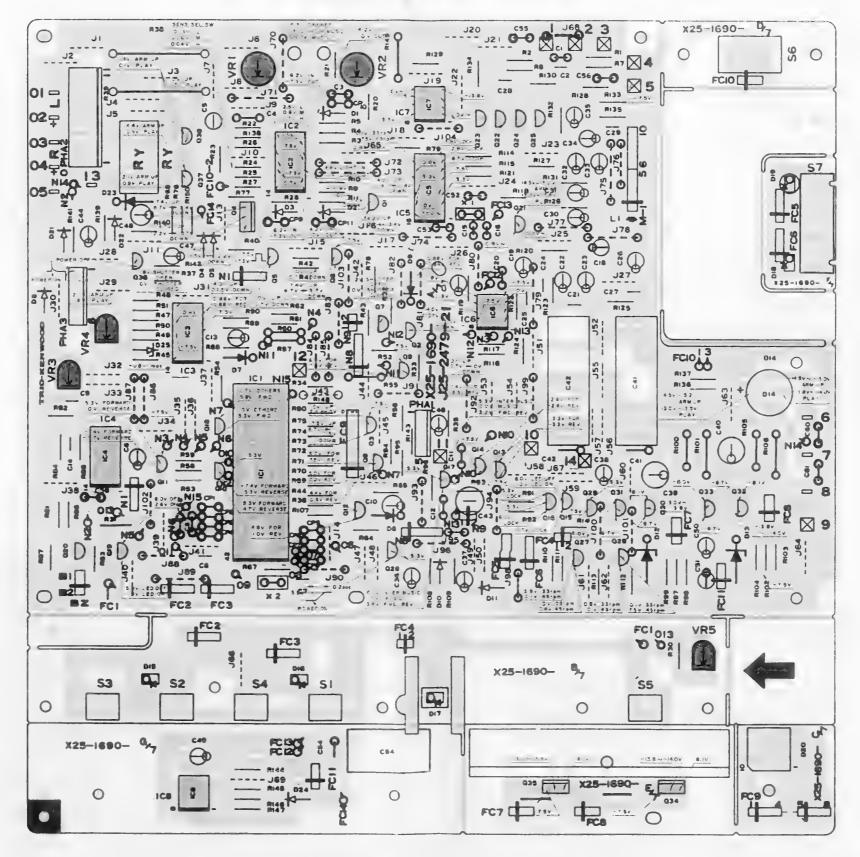
Refer to the schematic diagram for the values of capacitors and resistors. The PC board drawing is viewed from the side easy to check

KD-9X/9XG

KO-9X/9X6 KD-9X/9X6

PC BOARD

CONTROL (X25-1690-11)
Component Side View



In this model, there are separated poboards which were originally one. These separated po boards can't be supplied independently.

Ex.	Part No. of pc board	Separated portion No.
	X09-1230-00	(A/3)
	X09-1230-00	(B/3)
	X09-1230-00	(C/3)

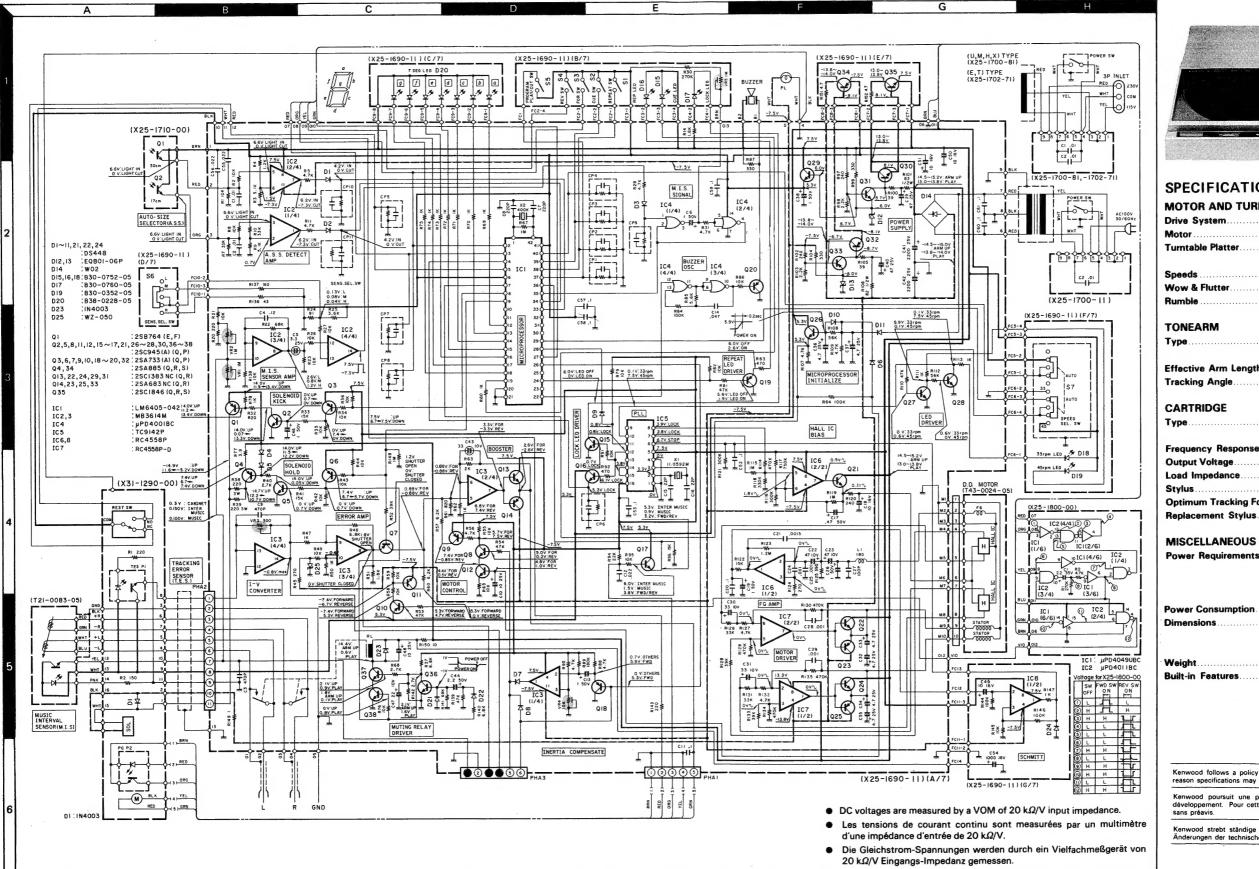
In the example shown above, separated portion can't be ordered independently. In case only A/3 was ordered, pc board ass'y of X09-1230-00, which all A/3, B/3, C/3 included, will be shipped.

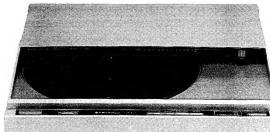
Refer to the schematic diagram for the values of capacitors and resistors. The PC board drawing is viewed from the side easy to check.



QUARTZ PLL DIRECT DRIVE FULL-AUTOMATIC TURNTABLE







SPECIFICATIONS

MOTOR AND TURNTABLE

Drive System	Direct-drive system
Motor	Quartz PLL slotless motor
Turntable Platter	30 cm (11-13/16") diameter
	Aluminum alloy, die-cast
Speeds	2 speeds, 33-1/3 and 45 rpm
Wow & Flutter	Less than 0.035% (WRMS)
Rumble	DIN weighted better than -72 of

TONEARM

1 ype	Static-balance type,
	Linear tracking system
Effective Arm Length	164 mm (6-15/32")
Tracking Angle	Within +0.2°

CARTRIDGE

1	Type Toneath built-its with plug-in	
	IM cartridge and photo senso)(
	Frequency Response20~20,000 Hz	
	Output Voltage	C.
	Load Impedance47 k ohms	
	Stylus 0.6 mil diamond	

Optimum Tracking Force..... 2.0 g (fixed)

Replacement Stylus...

er Requirements	AC 1	120 V, 60 Hz: U.S.A.
	and	Canada Models
	AC 1	20 V/220-240V (Switchable),
	50/6	O Hz: Other countries
er Consumption	30 w	vatts
ensions	W	440 mm (17-5/16")
	Н	108 mm (4-1/4")
	D	390 mm (15-11/32")
ght	6.11	kg (13.4 lb)
-in Features	Fully-	-automatic tonearm system
	(Auto	omatic lead-in/Return/Cut/Repeat)

Auto size and speed selector system Cueina dévice Built-in EP adaptor stand

Automatic number selection

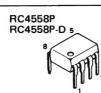
Kenwood poursuit une politique de progrès constants en ce qui concerne développement. Pour cette raison, les spécifications sont sujettes à modification

Kenwood strebt ständige Verbesserungen in der Entwicklung an. Daher bleiber Änderungen der technischen Daten jederzeit vorbehalten.

2SA683NC 2SC945(A) 2SA 683NC 2SC 1383NC 2SA 733(A) 2SC 1383NC 2SA564A 2SC1685 2SB562 2SD465 2SB764 2SD863









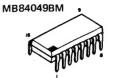










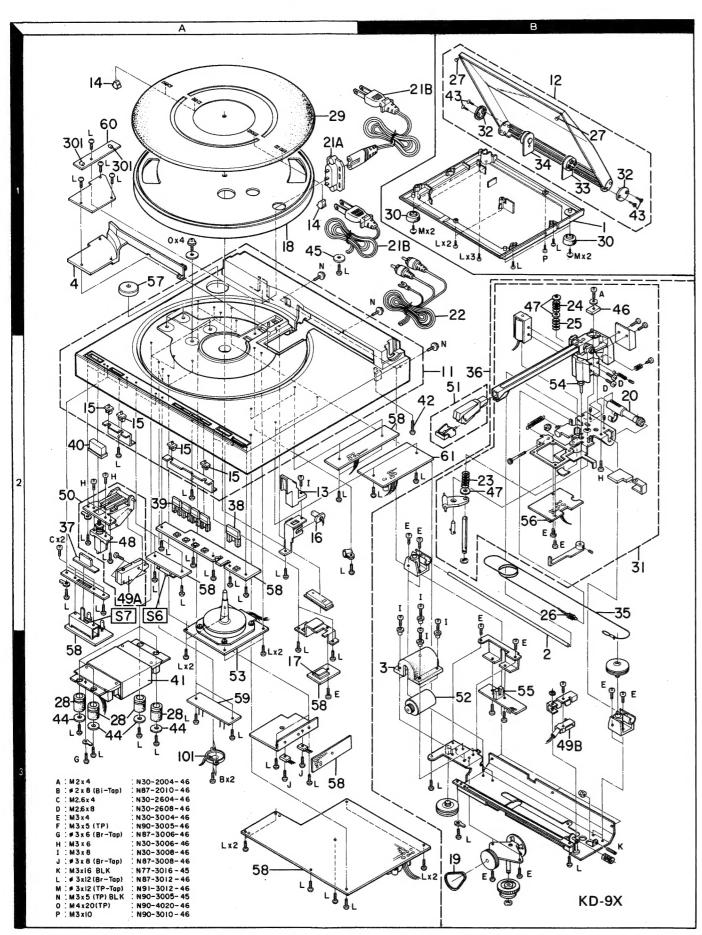






KD-9X/9XG KD-9X/9XG

EXPLODED VIEW



* New Parts

PARTS LIST

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Ref.	No.	Parts No.	Description	Re- marks	Ref.	No.	Parts No.	Description	Re
無	書号	部品番号	部 品 名/規 格	備考	参照	番号	部品番号	部品名/規格	備
	KD-9)	K UNIT			29	1 A	616-0354-02	SHEET (TURNTABLE)	١,
1 1	В	NO STOCK	BOTTOM PLATE		١.		н01-4320-04	CARTON BOX	١.
	В	NO STOCK	RAIL		-		H01-4321-04	CARTON BOX	
	В	NO STOCK	COVER(DC MOTOR)		-		H01-4321-04	CARTON BOX	
	A	NO STOCK	COVER (TONEARM WINDOW)		-		H01-4321-04	CARTON BOX	}
					-		H01-4321-04	CARTON BOX	1
	B	A02-0384-12	PLASTIC CABINET ASSY	*K	1				
	В	A02-0385-12	PLASTIC CABINET ASSY	*T	-		H01-4322-04	CARTON BOX	'
	B	A02-0386-12	PLASTIC CABINET ASSY	*P	-		H10-2313-02	POLYSTYRENE FIXTURE	'
	В	A02-0386-12 A02-0386-12	PLASTIC CABINET ASSY PLASTIC CABINET ASSY	UM	-		H10-2314-02 H10-2315-02	POLYSTYRENE FIXTURE POLYSTYRENE FIXTURE	;
-	.	A45 -0300 15	PERSONE CABINET ASSI	нх	_		H20-1110-04	COVER	
	B	A02-0386-12	PLASTIC CABINET ASSY	ET					"
1	В	A53-0255-12	TURNTABLE COVER ASSY	*	-		H20-1110-04	COVER	1
	1				-		H20-1110-04	COVER)
		B46-0055-30	WARRANTY CARD	P	-		H20-1110-04	COVER	1
		B46-0060-00	WARRANTY CARD	I	-		H25-0078-04	BAG (235x315)	1.
		846-0061-30	WARRANTY CARD	K	-		H25-0148-04	BAG	1
		846-0062-30 846-0063-13	WARRANTY CARD	UH	١.		H25-0159-04	BAG	1.
		540-0003-13	WARRANTI CARV	Un	1		1123-0139-04	UNU	1
		B46-0064-20	WARRANTY CARD	λ	30	1B	J02-0342-04	FOOT	
		B46-0078-03	WARRANTY CARD	Ê		28	J19-2085-08	HOLDER	
		B50-4260-00	INSTRUCTION MANUAL	*1	32	1 B	J50-0324-05	HINGE (COVER)	1
		B50-4260-00	INSTRUCTION MANUAL	UH		18	J50-0326-05	HINGE(R)	1
		850-4261-00	INSTRUCTION MANUAL	*P	34	18	J50-0327-05	HINGE(L)	4
		DE0 (3/4 00			35	28	J60-0202-08	6005/160B50 51003	
	1	B50-4261-00	INSTRUCTION MANUAL	MX	36	2B	J91-0166-05	CORD(LOOPED ENUS) TONEARM ASSY	
		B50-4262-00 B50-4263-00	INSTRUCTION MANUAL	*T	30	20	371-0106-03	TONEARM ASST	
		B50-4270-00	INSTRUCTION MANUAL INSTRUCTION MANUAL	*M	37	2 A	K27-0348-04	KNOB (SPEED SELECTOR)	
		B59-0018-00	SERVICE STATIONS LIST	*E		2 A	K29-0976-14	KNOB (PROGRAM-PLAY/CUT)	
		557-0010 00	3544105 37411343 5131		39	2 A	K29-0977-14	KNOB (FOR, CUE, REV, REPEAT) .
	Α	819-0511-08	LENS (AUTO-SIZE SELECTOR)		40	2 A	K29-0978-04	KNOB (POWER)	
i	A	B19-0512-04	LENS (TURNTABLE SHEET)		1				
,	a	619-0513-04	LENS(45,33,CUE,REPEAT)		41	3 A	L01-2931-05	POWER TRANSFORMER	F
A	۱ ۱	B30-0757-08	LAMP (AUTO-SIZE SELECTOR)		41	3 A	L01-6541-05	POWER TRANSFORMER	IX
	A	E38-0226-05	DISPLAY ASSY (7-SEGMENT)	*	41	3 A	L01-6544-05	POWER TRANSFORMER	L
					41	3 A	L01-6544-05	POWER TRANSFORMER	1
	A	002-0044-05	TURNTABLE PLATTER	*	41	3 A	L01-6544-05	POWER TRANSFORMER	1
	B B	D16-0252-04 D23-0546-08	BELT	I	42	2 B	N09-0253-04	SCREW(WINDOW COVER)	
-		023=0340-08	RETAINER			1 B	N09-0983-05	SCREW(TURNTABLE COVER)	١.
		E23-0015-04	EARTH LUG	1		3 A	N19-0563-14	WASHER (POWER TRANS)	1
1	A	E03-0105-05	3P INLET	UM		1 A	N19-0802-04	WASHER (POWER CORD)	1
1		E03-0105-05	3P INLET	НХ		1 B	N19-0821-08	WASHER (TONEARM)	1
1		E03-0105-05	3P INLET	ET					
	В	E30-1305-15	POWER CORD	UM	47	18,2B	N19-0837-08	WASHER (TONEARM)	1
		F70 4705 4-	20150 2033		, ,	24	EAO 2722 05	DUCK 100K 070H07	
	В	E30-1305-15	POWER CORD	H	48 49A	2A 2A	\$40-2322-05 \$49-2003-05	PUSH LOCK STRUCTURE SENSITIVE SWITCH(POWER)	1
	B B	E30-1328-15		Ţ	49A		\$50-1316-05		
	В	E30-1329-05 E30-1342-05	POWER CORD POWER CORD	E X	50		S59-1307-03	SENSITIVE SWITCH SWITCH ASSY	١,
	В	E30-1350-05	POWER CORD	KP		2 A	\$59-1307-03	SWITCH ASSY	2
		3,0 0,		1777					Ι΄
ļ	В	£30+1351-25	AUDIO CORD	PU		2 A	\$59-1307-03	SWITCH ASSY	M
	В	E30-1351-25		мн		2 A	\$59-1307-03	SWITCH ASSY	X
В		E30-1351-25	AUDIO CORD	EΤ	50	2 A	s59-1308-03	SWITCH ASSY	6
	В	E30-1351-25	AUDIO CORD	х			-00 054 65		1
1	В	E30-1352-25	AUDIC CORD	K	51	28	T99-0216-05	TEST RECORD	1.
	_	604 4474 60	acti abatus			3B	T21-0083-05	MAGNETIC CARTRIDGE	*
	B	601-1171-08				3 A	T43-0024-05	DC MOTOR(TONEARM DRIVE) MOTOR(TURNTABLE)	1
	I B	G01-1172-08 G01-1173-08	COIL SPRING	 		2B	194-0072-08	MAGNETIC PLUNGER	
	2 B	601-1174-08			1		.,, 50, 20, 200		1
P		G13-0405-04	CUSHION (TURNTABLE COVER)		55	38	T95-0010-05	PHOTO INTERRUPTER (PG)	
					56	2 B	T95-0011-05	PHOTO INTERRUPTER (T.E.S.)	
	A	G13-0483-04	CUSHION (POWER TRANS.)	•					
	A .	G16-0348-02		*P	57	1 A	W01-0329-04	EP ADAPTER	1.
	A	616-0348-02		UM	F 0	24 74	V25-4400-00	CONTROL OCD ACCE	١.
	I A	616-0348-02		HX		2A,3A	x25-1690-00 x25-1690-00	CONTROL PCB ASSY	*
n	,	G16-0348-02	SHEET (TURNTABLE)	ET	58	2A,3A	x25-1690-00	CONTROL PCB ASSY CONTROL PCB ASSY	7

E: Scandinavia & Europe H: Audio Club K: USA P: Canada S: South Africa T: England U: PX (Far East, Hawaii)

UE: AAFES (Europe) X: Australia M: Other Areas

K: KD-9XG

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UE: AAFES (Europe) X: Australia M: Other Areas

K: KD-9XG

* New Parts

PARTS LIST

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Ref.	Ref. No. Parts No.		Description			
* !!	集号	部品書	号	部品名	/規格	marks
58	2A,3A	x25-1690-	.00	CONTROL PCB	ACCV	1.
58	2A,3A	x25-1690-		CONTROL PCB		T *[K]
58 59	2A,3A	x25-1690-		CONTROL PCB		P
59	3 A 3 A	x25-1700- x25-1700-		CONNECTING I		*K P
59	3 A	X25-1700-			PCB ASSY	+0
59 59	3 A 3 A	X25-1700- X25-1702-		CONNECTING I	PCB ASSY PCB ASSY	M ★E
59	3 A	x25-1702-	71	CONNECTING I	PCB ASSY	T
60 61	1 A 2 B	x25-1710- x25-1800-		SUB PCB ASS		*
01		ROL (X25-		SUB PCB ASS'	<u> </u>	<u> * </u>
015	,16	B30-0752-	0.5	LAMP	(PR5534S-1)	+
D17		B30-0760- B30-0752-			(PR3531K) (PR5534S=1)	
019		B30-0352-	0.5	LAMP	(SR603D(R.S)	1
020		E38-0228-	05	DISPLAY ASS	Y(SL-1181T)	
C1		C45-1710-		MYLAR 0.0		
C2		C45-1710-		MYLAR 0.0° CERAMIC 470		
C4.		C45-1712-	45	MYLAR 0.1	2UF J	
Ç5		C26-1433-		NP-ELEC 3.3		
C 6	.8	C25-1710- C71-1722-		LL-ELEC 1UF CERAMIC 2201	50WV PF J	
09	, ,	C71-1747-	15	CERAMIC 470	PF J	
C10		C25-1410- C91-0121-		CERAMIC 0.1		
c12		C45-1722- C25-1710-		MYLAR 0.07	22UF J 50WV	
C14		C45-1747-	35	MYLAR 0.04	47UF J	
C15	,16	C71-1722- C24-1747-		CERAMIC 22pt ELECTRO 0.47		
c18		c24-1216-	67	ELECTRO 10UI	F 16%V	
019		C24-1710-	57	ELECTRO 1UF	50 % V	
(20		C91-0121-		CERAMIC C.1	UF M 015UF J	
	,23	C24-1047-		ELECTRO 470		
024	,25	c52-1710-			010F K	
026		C24-1710- C71-1710-		ELECTRO 1UF CERAMIC 100	SOWV PF J	
(28	.29	C45-1710-	25	MYLAR 0.00	Olur J	
¢30	,31	c24-1233-	67	ELECTRO 33UI	F 16WV	
(32	-37	C24-6547-		ELECTRO 4.71		
(38 (39	.40	CZ4-1447-	67	ELECTRO 1UF ELECTRO 47UI	50WV F 25WV	1
C41	.42	C24-1422-	87	ELECTRO 2200	DUF 25 W	
(43		C26-1033-	0/	NP-ELEC 33UI	F 10WV	
C44		C24-1722-		ELECTRO 2.20 ELECTRO 1UF		
047		C24-1022-	67	ELECTRO 22U	F 10 w V	
843	.50	C24-1410- C24-121C-		ELECTRO 10UI		
	<i>730</i>					
¢51	,53	C24-1210-		CERAMIC 0.1	-	
¢54		c24-1210-	87	ELECTRO 100	0 UF 16 W V	
(55 (57	-56 -61	C55-1722-		CERAMIC 0.02	22UF Z UF M	
	- 1					
:		£40-0573-		PIN CONNECTO		
		E40-1178-		PIN CONNECTO		
LT		L40-1811-	.03	INDUCTOR		

Ref. No.	Parts No.	Description	Re-
参照番号	部品番号	部品名/規格	mark
x1 x2	L77-1102-05 L78-0202-05	XTAL RESONATOR (11.0592M) RESONATOR (400KHZ)	
CP1 -8 CP9 -11 R38 -39 R78 R100	R90-0409-05 R90-0410-05 P92-0527-05 R42-1210-25 R42-1239-05	MULTIPLE COMPONENTS MULTIPLE COMPONENTS FL-PROOF RS220 J 3F FL-PROOF RD1K J 2E FL-PROOF RD39 J 2E	
R101 R105 R106 R149 R150	F42-1382-05 R42-1239-05 R42-1382-05 R42-1210-95 R92-0513-05	FL-PROOF RD82 J 2H FL-PROOF RD39 J 2E FL-PROOF RD82 J 2H FL-PROOF RD1 J 2E FL-PROOF RD10 G 2E	
R151,152 VR1 ,2 VR3 VR4 VR5	R92-0514-05 R12-8502-05 R12-0306-05 R12-3312-05 R12-8010-05	FUSE-RESIST4.7 2E TRIMMING POT. 1M TRIMMING POT. 100 TRIMMING POT. 10K TRIMMING POT. 1M	
56 \$7	\$51-2408-05 \$31-2315-05 \$31-2313-05	RELAY SLIDE SWITCH(SENSOR SEL) SLIDE SWITCH(SPEED SEL)	
101 3A	T95-0007-05	PIEZOELECTRO BUZZER	
01 -11 D1 -11 D1 -11 D12 ,13	V11-1200-80 V11-6101-80 V11-7700-30 V11-7102-60 V11-2400-20	1\$\$53 0\$448 1\$2473 EQB01-06P W02	*
D21 ,22 D21 ,22 D23 D24 D25	V11-6101-80 V11-7700-30 V11-9729-05 V11-6101-80 V11-4102-10	DS448 1S2473 1N4003 DS448 WZ-050	
IC1 IC2 ,3 IC4 IC4 IC4	v30-0744-10 v30-0597-10 v30-0303-10 v30-0378-10 v30-0580-10	LM6405-042 MB3614M CD4001BE MC14001BCP UPD4001BC	*
105 106 106 106 107	V30-0596-10 V30-0349-10 V30-0426-10 V30-0704-10 V30-0704-10	TC9142P UPC4558C RC4558P RC4558P-D RC4558P-D	
1C8 1C8 1C8 Q1	V30-0349-10 V30-0426-10 V30-0704-10 V02-0764-10 V03-0945-80	UPC4558C RC4558P RC4558P=D 2SB764(E,F) 2SC945(A)(Q,P)	
Q2 Q3 Q3 Q4 Q5	v03-1685-20 v01-0564-30 v01-0733-40 v01-0885-10 v03-0945-80	2SC1685(R,S) 2SA564A(Q,R) 2SA733(A)(Q,P) 2SA885(Q,R,S) 2SC945(A)(Q,P)	*
Q5 Q6 ,7 Q6 ,7 Q8 Q8	V03-1685-20 V01-0564-30 V01-0733-40 V03-0945-80 V03-1685-20	2SC1685(R,S) 2SA564A(Q,R) 2SA733(A)(Q,P) 2SC945(A)(Q,P) 2SC1685(R,S)	*
99 ,10 99 ,10 911 ,12 911 ,12	V01-0564-30 V01-0733-40 V03-0945-80 V03-1685-20 V03-1383-10	2SA564A(Q,R) 2SA733(A)(Q,P) 2SC945(A)(Q,P) 2SC1685(R,S) 2SC1383NC(Q,R)	*

E: Scandinavia & Europe H: Audio Club K: USA P: Canada

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* New Parts

PARTS LIST /PACKING

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Ref. No.	Parts No.	Parts No. Description			
参照者号	部品書号	部品名/規格	marks		
Q13	V04-0468-10	2SD468(B,C)	*		
Q13	V04-0863-10	2SD863(E,F)			
Q14	V01-0683-10	2SA683NC(Q,R)			
Q14	V02-0562-00	2SB562			
Q14	V02-0764-10	2SB764(E,F)			
Q15 -17	V03-0945-80	2SC945(A)(Q,P)	*		
Q15 -17	V03-1685-20	2SC1685(R,S)			
Q18 -20	V01-0564-30	2SA564A(Q,R)			
Q18 -20	V01-0733-40	2SA733(A)(Q,P)			
Q21	V03-0945-80	2SC945(A)(Q,P)			
921	V03-1685-20	2SC1685(R,S)	*		
922	V03-1383-10	2SC1383NC(Q,R)			
922	V04-0468-10	2SD468(E,C)			
922	V04-0863-10	2SD363(E,F)			
923	V01-6683-10	2SA683NC(Q,R)			
023	V02-0562-00	2SB562			
023	V02-0764-10	2SB764(E,F)			
024	V03-1383-10	2SC1383hC(Q,R)			
024	V04-0468-10	2SD468(B,C)			
024	V04-0863-10	2SD863(E,F)			
025	V01-0683-10	2SA683NC(Q,R)	*		
025	V02-0562-00	2SB562			
025	V02-0764-10	2SB764(E,F)			
026 -28	V03-0945-80	2SC945(A)(Q,P)			
026 -28	V03-1685-20	2SC1685(R,S)			
929	V03-1383-10	2SC1383NC(Q,R)			
929	V04-0468-10	2SD468(B,C)			
929	V04-0863-10	2SU863(E,F)			
930	V03-0945-80	2SC945(A)(Q,P)			
930	V03-1685-20	2SC1685(R,S)			
931	V03-1383-10	2SC1383NC(Q,R)	*		
931	V04-0468-10	2SD468(B,C)			
931	V04-0863-10	2SD863(E,F)			
932	V01-0564-30	2SA564A(Q,R)			
932	V01-0733-40	2SA733(A)(Q,P)			
033	V01-0683-10	2SA663NC(Q,R)	*		
033	V02-0562-00	2SB562			
033	V02-0764-10	2SB764(E,F)			
034	V01-0885-10	2SA885(Q,R,S)			
635	V03-1846-20	2SC1846(Q,R,S)			
936 -38	v03-0945-80	2sc945(A)(Q,P)			
936 -38	v03-1685-20	2sc1685(R,S)			
	VECTING (X2				
C1	C91-0079-05	CERAMIC 0.01UF AC125V			
C2	C91-0023-05	CERAMIC 0.01UF AC250V			
	X25-1710-00)				
301 1A	V30-0428-11 (X25-1800-00)	TPS6051111			
C1 SUB	C25-6522-57	LL-ELEC 2.2UF 35WV	 		
IC1	V30-0711-20	MB84049BM			
IC1	V30-0761-10	UPD4049UBP			
IC1	V30-1009-26	TC4049BP			
IC2	V30-0301-70	TC4011BP			
IC2	V30-0582-10	UPD4011BC			

PACKING Polyethyrene foamed sheet Instruction manual* Turntable ass'v (A53-0255-12) EP adaptor (W01-0329-04) Packing fixture Polystyrene fixture Polystyrene fixture (H10-2314-02) (H10-2315-02) Packing fixture Protection cover (H20-1110-04) Packing fixture Polystyrene fixture Polystyrene fixture (H10-2313-02) (H10-2313-02) Auto-size selector malfunction prevention sheet Turntable sheet* Turntable platter (D02-0044-05) Carton box*

A product of TRIO-KENWOOD CORPORATION

Shionogi Shibuya Building, 17-5, 2-chome Shibuya, Shibuya-ku, Tokyo 150, Japan

KENWOOD U.S.A. CORPORATION

1315 E. Watsoncenter Rd, Carson, California 90745, U.S.A.

75 Seaview Drive, Secaucus, New Jersey 07094, U.S.A.

TRIO-KENWOOD CANADA INC.

1070 Jayson Court, Mississauga, Ontario, Canada L4W 2V5

TRIO-KENWOOD ELECTRONICS, N.V.

Leuvensesteenweg 504 B-1930 Zaventem, Belgium TRIO-KENWOOD ELECTRONICS GmbH

Rudolf-Braas-Str 20, 6056 Heusenstamm, West Germany

TRIO-KENWOOD FRANCE S.A.

5, Boulevard Ney, 75018 Paris, France

TRIO-KENWOOD AG

Unterboesh 6331 Huenenberg/ZUG Switzerland

TRIO-KENWOOD (AUSTRALIA) PTY. LTD.4E Woodcock Place, Lane Cove. N.S.W. 2066, Australia

KENWOOD & LEE ELECTRONICS, LTD.

Wang Kee Building, 5th Floor, 34-37, Connaught Road, Central, Hong Kong

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*Refer to parts list on page 18